

PATENT ABSTRACTS OF JAPAN

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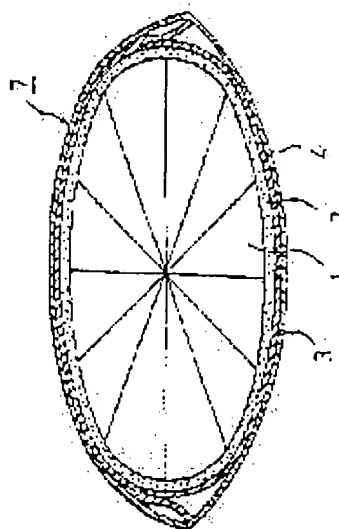
(54) HEAT EXPANSION-RESISTANT MEMBER

(57)Abstract:

PURPOSE: To improve durability by blending sepiolite mineral with treated unexpanded vermiculite, ceramics fibers and an ethylenebased multi-copolymer as an organic binder in a specific weight ratio.

CONSTITUTION: 3-5wt.% α type sepiolite mineral is blended with 49-59wt.% unexpanded vermiculite treated with an aqueous solution of $\text{NaNH}_4\text{HPO}_4$, 25-30wt.% ceramics fibers and 10-15wt.% ethylenebased multi-copolymer such as ethylene vinyl acetate acrylic acid copolymer as an organic binder to give a heat expansionresistant sheet. The sheet is suitable for four-wheel automobiles and a heat expansion-resistant sheet by partially changing the blend of 23-33wt.% treated unexpanded vermiculite and 50-60wt.% ceramics fibers

is suitable for motor-bicycles. Then a heat expansion-resistant sheet 2 is wound twice around the outer periphery of a monolithic catalyst 1 made of ceramics honeycomb, attached to a two-divided metallic casing 3 and the outer periphery of the casing 3 is fastened with a metallic band 4 to give a metallic converter.



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